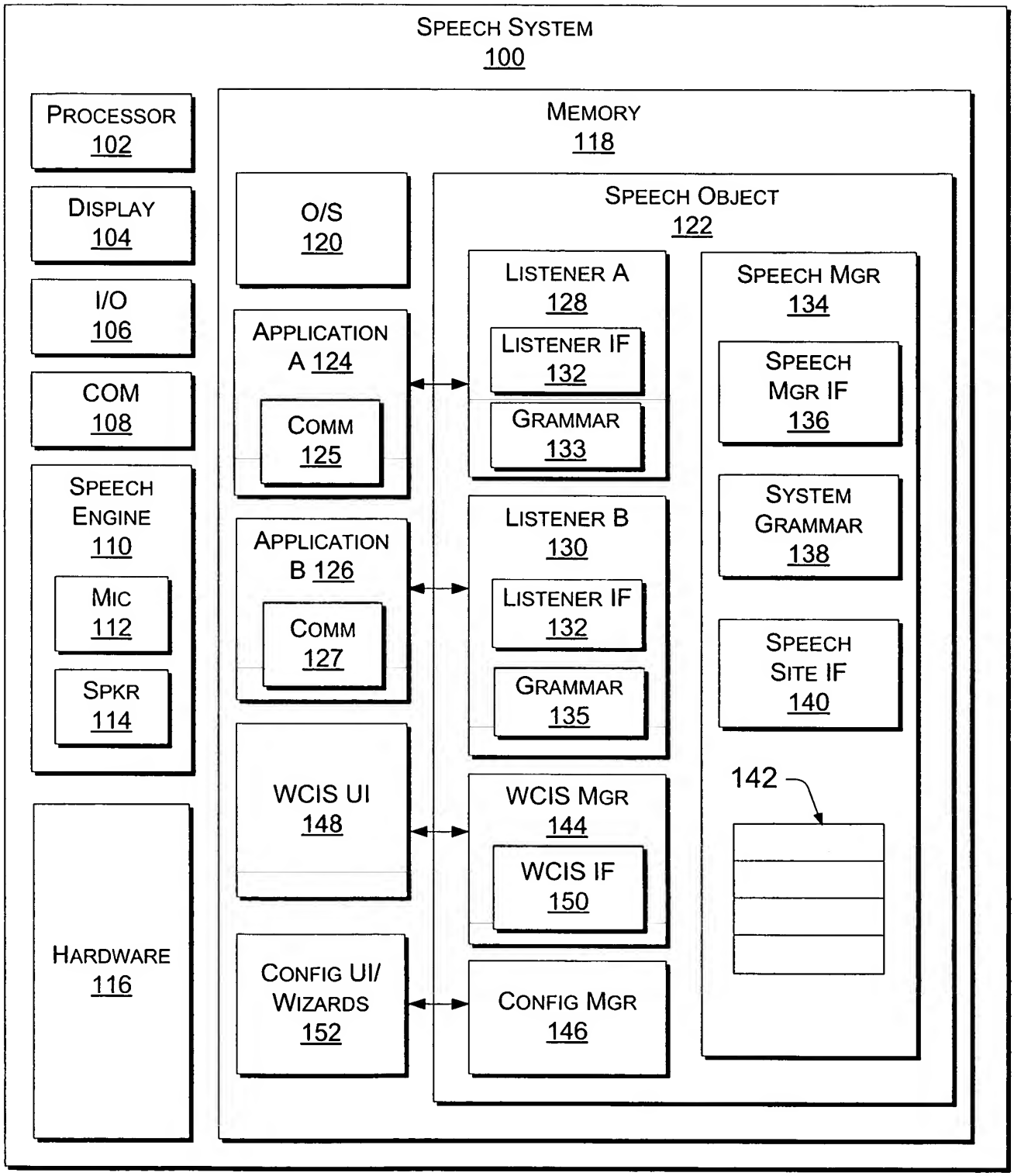
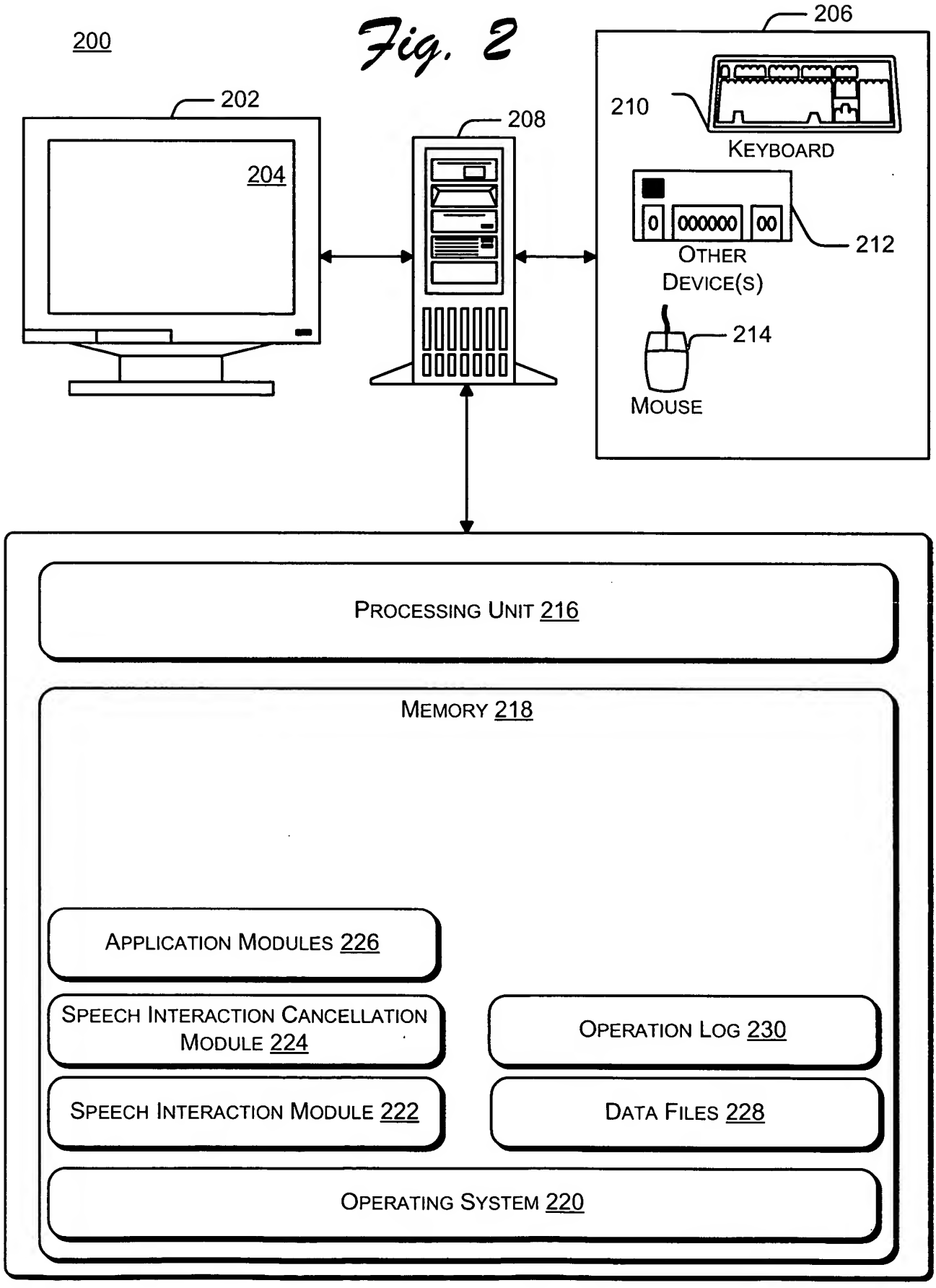

SPEECH SYSTEM
100
PROCESSOR
102
DISPLAY
104
I/O
106
COM
108
SPEECH ENGINE
110
MIC
112
SPKR
114
HARDWARE
116
MEMORY
118
O/S
120
APPLICATION A 124
COMM
125
APPLICATION B 126
COMM
127
WCIS UI
148
CONFIG UI/ WIZARDS
152
SPEECH OBJECT
122
LISTENER A
128
LISTENER IF
132
GRAMMAR
133
LISTENER B
130
LISTENER IF
132
GRAMMAR
135
WCIS MGR
144
WCIS IF
150
CONFIG MGR
146
SPEECH MGR
134
SPEECH MGR IF
136
SYSTEM GRAMMAR
138
SPEECH SITE IF
140
142

Fig 1

Fig. 2


200
202
204
208
206
210
KEYBOARD
212
OTHER DEVICE(S)
214
MOUSE
PROCESSING UNIT 216
MEMORY 218
APPLICATION MODULES 226
SPEECH INTERACTION CANCELLATION MODULE 224
OPERATION LOG 230
SPEECH INTERACTION MODULE 222
DATA FILES 228
OPERATING SYSTEM 220

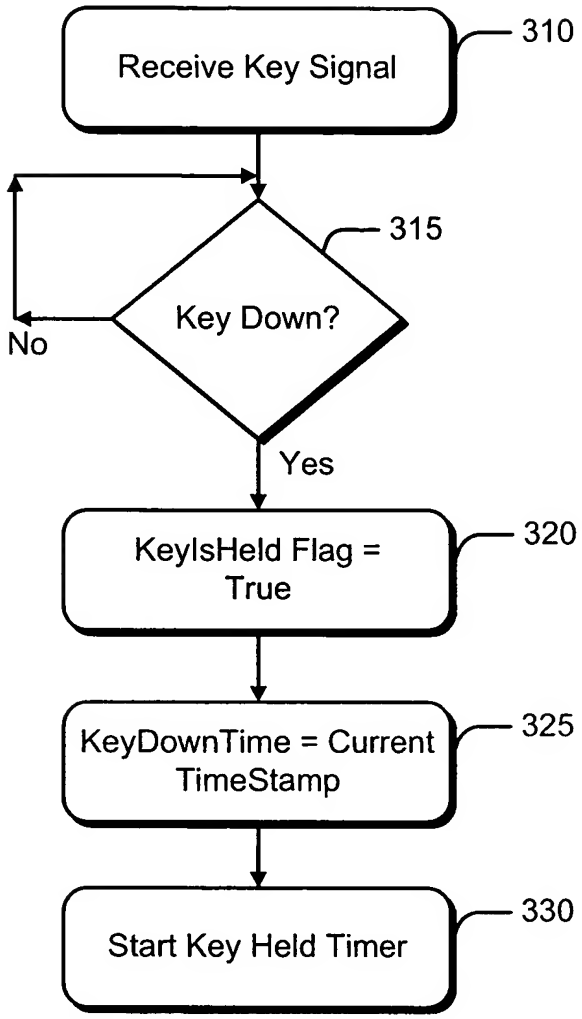

Receive Key Signal
310
315
Key Down?
No
Yes
KeyIsHeld Flag = True
320
KeyDownTime = Current TimeStamp
325
Start Key Held Timer
330

Fig. 3

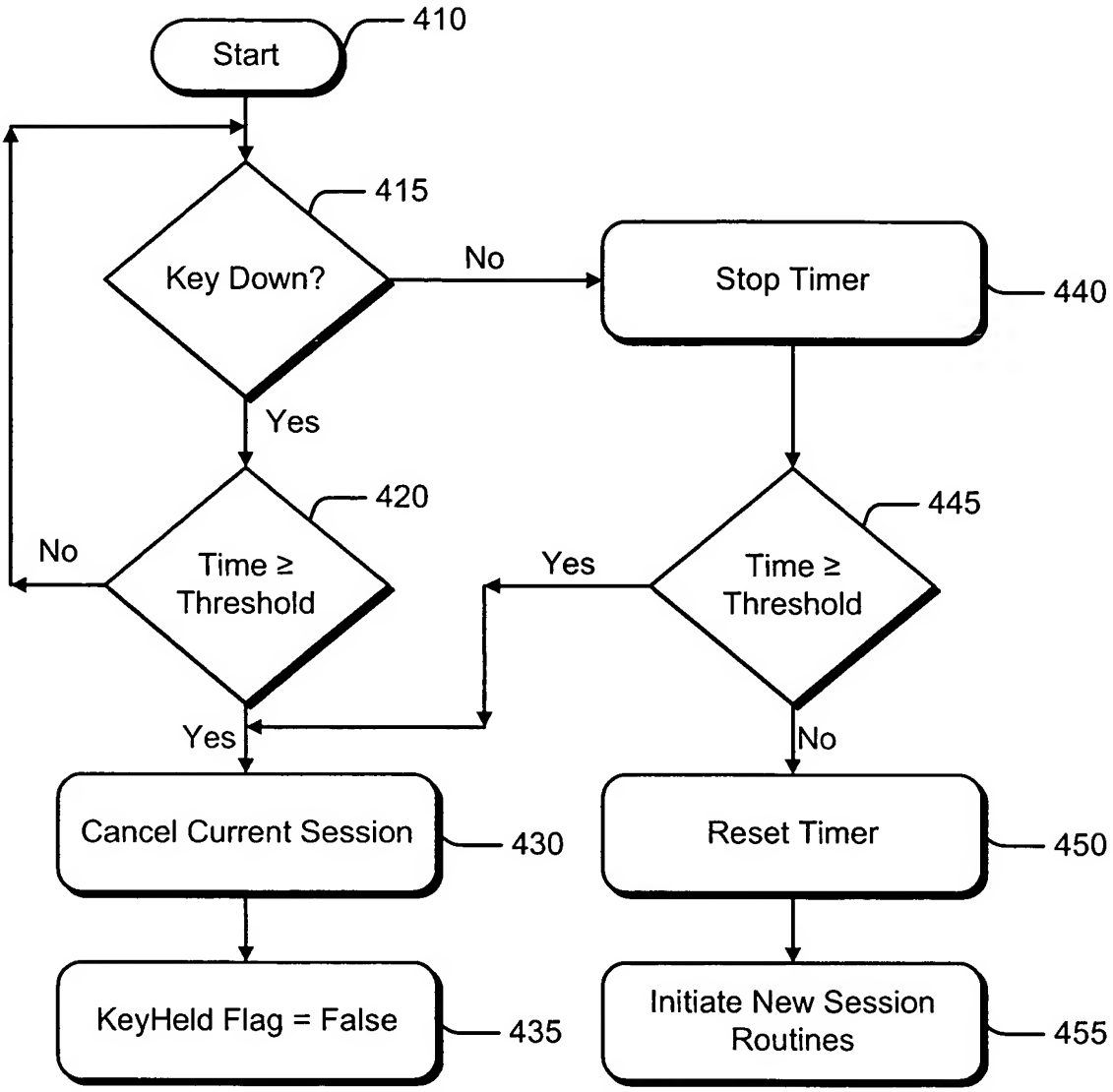

Start
410
Key Down?
415
No
Stop Timer
440
Yes
Time ≥ Threshold
420
No
Yes
Time ≥ Threshold
445
Yes
No
Cancel Current Session
430
Reset Timer
450
KeyHeld Flag = False
435
Initiate New Session Routines
455

Fig. 4

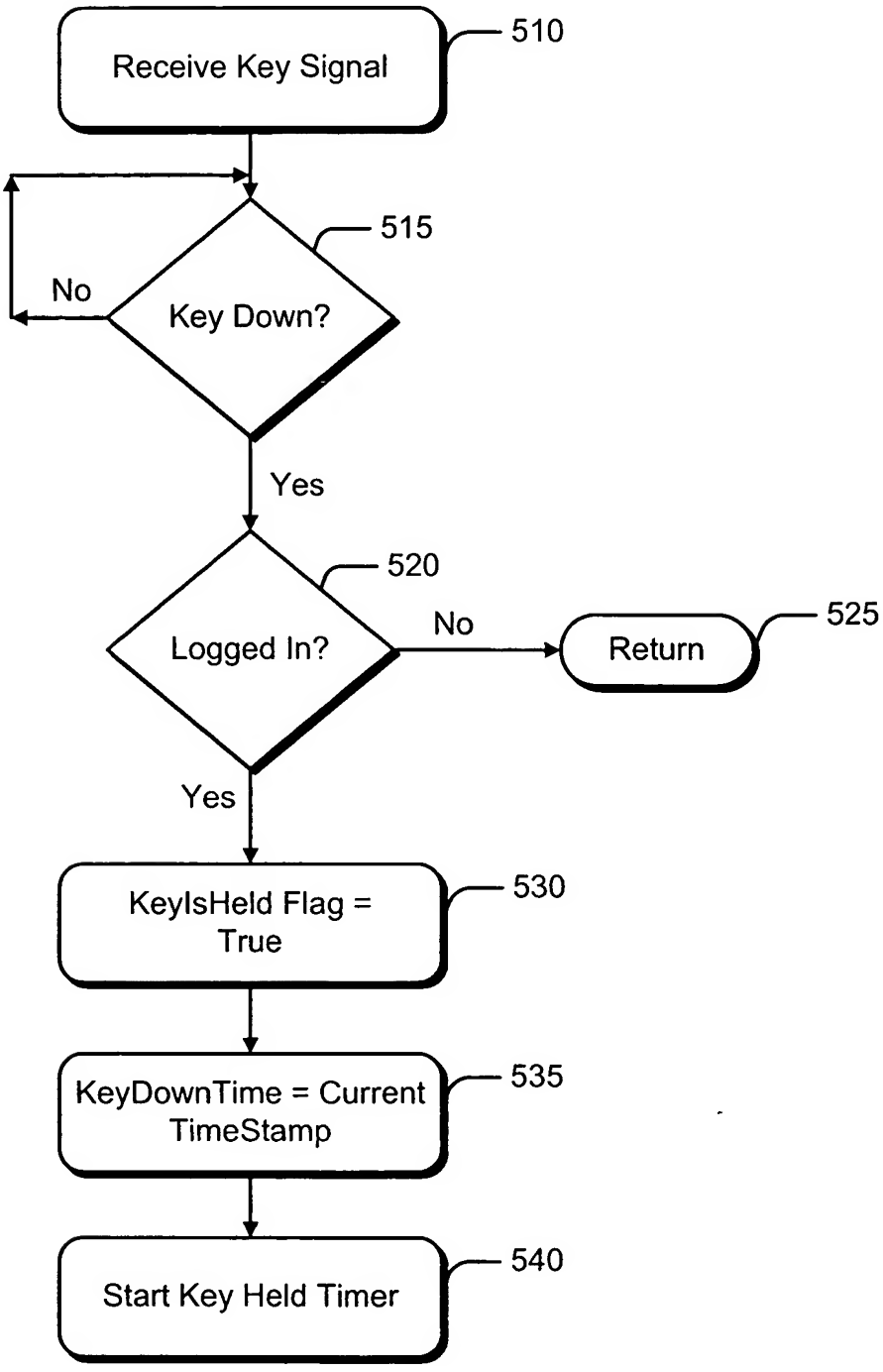

Receive Key Signal
510
515
Key Down?
No
Yes
520
Logged In?
No
Return
525
Yes
KeyIsHeld Flag = True
530
KeyDownTime = Current TimeStamp
535
Start Key Held Timer
540

Fig. 5

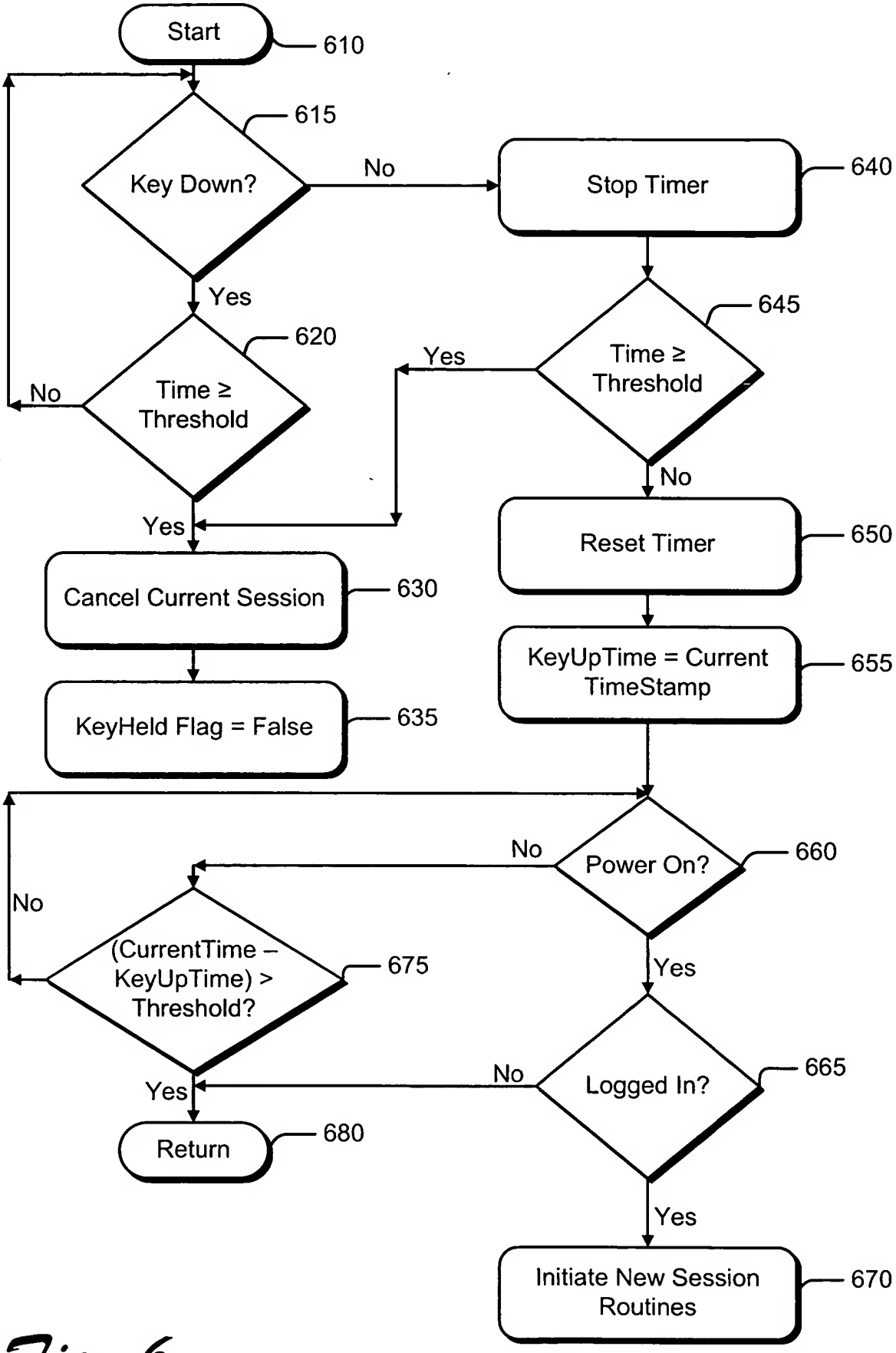

Start
610
615
Key Down?
No
640
Stop Timer
Yes
645
620
Time ≥ Threshold
Yes
Time ≥ Threshold
No
No
Yes
Reset Timer
650
Cancel Current Session
630
KeyUpTime = Current TimeStamp
655
KeyHeld Flag = False
635
No
Power On?
660
No
(CurrentTime – KeyUpTime) > Threshold?
675
Yes
Yes
No
Logged In?
665
Return
680
Yes
Initiate New Session Routines
670

Fig. 6

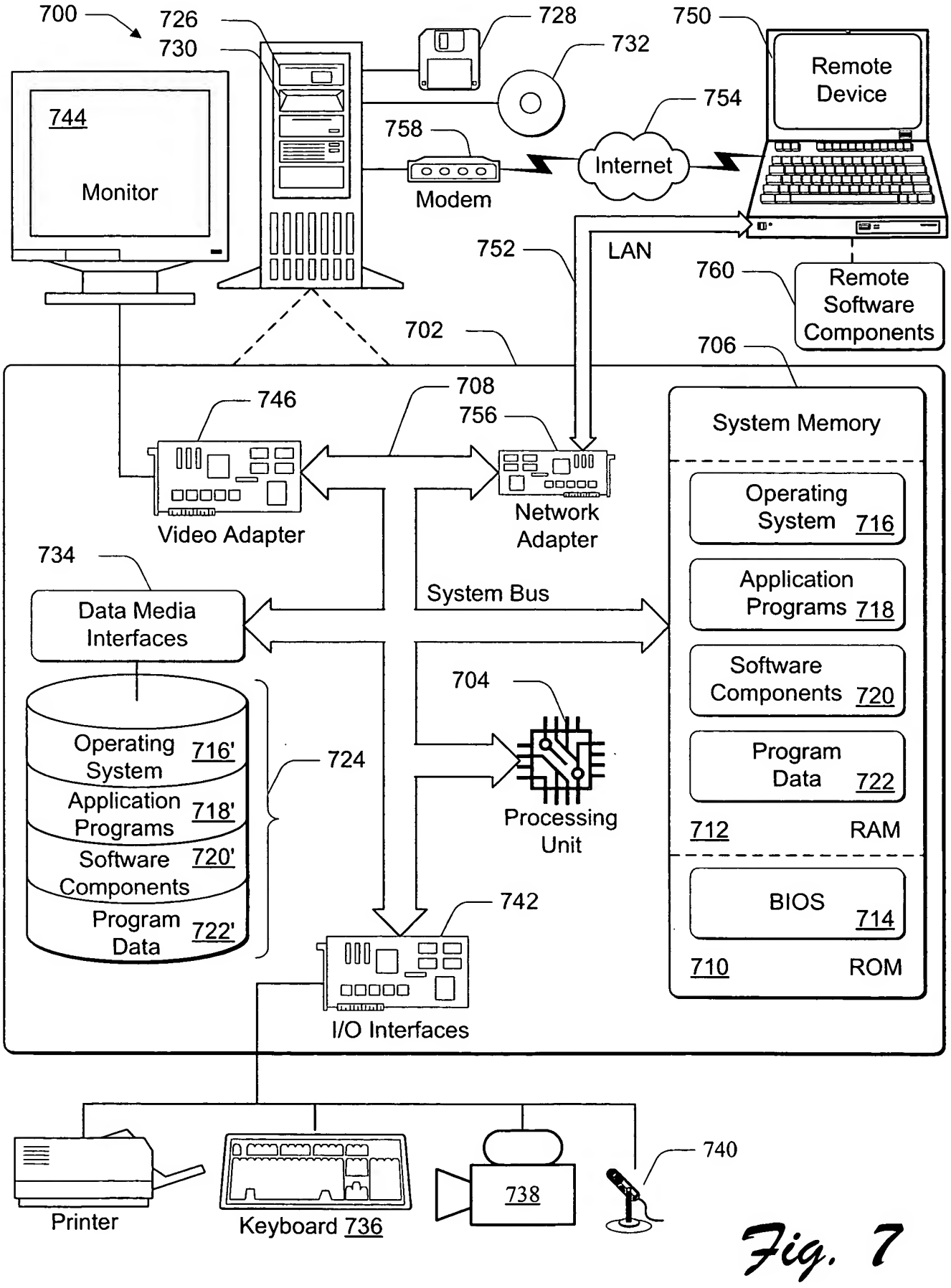

700
726
730
728
732
750
Remote Device
744
Monitor
754
758
Modem
Internet
752
LAN
760
Remote Software Components
702
706
746
708
756
System Memory
Video Adapter
Network Adapter
Operating System 716
734
Application Programs 718
Data Media Interfaces
System Bus
Software Components 720
704
Operating System 716'
724
Application Programs 718'
Processing Unit
Software Components 720'
Program Data 722
712 RAM
Program Data 722'
742
BIOS 714
710 ROM
I/O Interfaces
740
Printer
Keyboard 736
738

Fig. 7